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Application No. 10/605,241 Docket No. 121441-7 Amendment dated November 9, 2004

Reply to Office Action of September 9, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application.

Listing of Claims:

Claim 1 (currently amended): A component having a coating on a first

surface thereof and a machined through-hole from which has been removed a deposit

that was contiguous with the coating with the result that the through-hole has a first

through-hole surface defined by the component and a second through-hole surface

defined by a portion of the coating exposed by removal of the deposit, the deposit being

removed by directing a liquid-containing jet at the through-hole from a second surface

of the component opposite the first surface, the jet containing non-abrasive particulate

media and being emitted from a nozzle at a pressure insufficient to remove substantially

all of the deposit from the through-hole if the particulate media were not present in the

jet, wherein the through-hole is free of debris from the deposit, the first through-hole

surface is impact-flattened to have a better than as-machined surface finish, the second

through-hole surface is deburred and smoothed primarily by impact fracturing of the

deposit and not by erosion or abrasion of the deposit, and the through-hole is

characterized by a better than as-machined discharge coefficient.

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Claim 2 (original): A component according to claim 1, wherein the coating is a ceramic layer on the first surface of the component.

Claim 3 (original): A component according to claim 2, wherein the ceramic layer is a plasma sprayed ceramic layer.

Claim 4 (original): A component according to claim 1, wherein the component is an air-cooled component, and the through-hole is a cooling hole that intersects the first and second surfaces of the component.

Claim 5 (canceled)

Claim 6 (original): A component according to claim 1, wherein the discharge coefficient of the through-hole is at least 0.9.

Claim 7 (original): A component according to claim 1, wherein the discharge coefficient of the through-hole is greater than 0.91.

Claim 8 (currently amended): An air-cooled gas turbine engine component having a metallic bond coat on a first surface thereof, a ceramic layer on the bond coat,

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and machined cooling holes that intersect a first surface and an oppositely-disposed

second surface of the component, wherein deposits have been removed from the cooling

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holes that were contiguous with the coating with the result that each of the cooling

holes has a first through-hole surface defined by the component and a second through-

hole surface defined by a portion of the ceramic layer exposed by removal of the

deposits, the deposits being removed by directing a liquid-containing jet at the cooling

holes from the second surface of the component, the jet containing spherical non-

abrasive particulate media and being emitted from a nozzle at a pressure insufficient to

remove substantially all of the deposit from the cooling holes if the particulate media

were not present in the jet, wherein the cooling holes are free of debris from the

deposits, the first through-hole surfaces are impact-flattened to have better than as-

machined surface finishes, the second through-hole surfaces defined by the ceramic

layer are not chipped and are characterized by removal of the deposits by impact

fracturing and not by erosion or abrasion, and the cooling holes have discharge

coefficients of at least 0.9.

Claims 9 and 10 (canceled)

Claim 11 (original): An air-cooled gas turbine engine component according

to claim 8, wherein the air-cooled gas turbine engine component is a combustor liner.

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Claim 12 (original): An air-cooled gas turbine engine component according to claim 8, wherein the discharge coefficients of the cooling holes are greater than 0.91.

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